

Appl. No. 09/706,926
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A method for representing cartographic data in a computer-based system, comprising:

providing a cartographic database containing data that represents a plurality of geographic features;

computing a plurality of wavelet coefficients from said data that represents one of said geographic features in the cartographic database, wherein said data that represents the geographic feature is a plurality of data points indicating locations, wherein said wavelet coefficients obtained with a wavelet, wherein said wavelet being one of a family of functions having a form $\psi_{ab}(x) = |a|^{-1/2} \psi\left(\frac{x-b}{a}\right)$, wherein $\psi_{ab}(x)$ is called a mother wavelet, a is called a dilation parameter, b is called a translation parameter, and x is an independent variable, wherein said computing the wavelet coefficients includes applying a wavelet transform to a function defined by the data points representing the geographic feature;

indexing the wavelet coefficients by a plurality of display scales; and

storing the wavelet coefficients in a computer-usable database on a physical storage medium, the coefficients being usable for displaying a representation of the geographic feature in the computer-based system.

Claim 2 (cancelled)

Claim 3 (previously presented): The method of claim 1, wherein the data points are selected from the group consisting of coordinate pairs and a coordinate triples.

Claim 4 (original): The method of claim 1, wherein the geographic feature is the boundary of a feature selected from the group consisting of a road, waterway, building, park, lake, railroad track, and airport.

Claim 5 (cancelled)